WASTEWATER PROJECTS

Wastewater Program
Project Summary Sheet
Inflow and Infiltration Projects

Fiscal Year	Costs
2016/2017	$450,000
2017/2018	$450,000
2018/2019	$300,000
2019/2020	$600,000
2020/2021	$600,000
Project Total	--

Criteria Met:

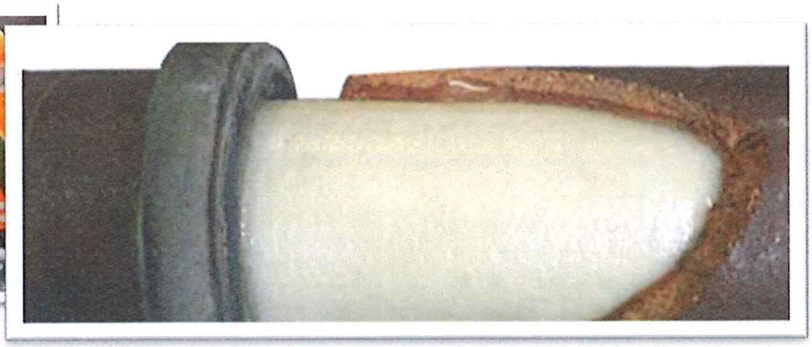
	Safety/Liability
	Council Goals
x	Maintenance
	Required per Regulation
	Coordinates with Larger Project
x	Existing Capacity
x	Cost Reduction
x	Future Capacity

Project Description:

The 2015 Inflow and Infiltration Report identified the need for significant replacements/rehabilitation of the older sections of the wastewater collections system throughout the City. The goal of the project is to replace the aging pipe infrastructure to reduce the maintenance costs and the stormwater inflow and infiltration into the system based on the priorities listed in the report.

Proposed Funding Sources:

This project is funded through the wastewater utility and SDCs. This project is 50% growth related.



Wastewater Program
Project Summary Sheet

Dayton Avenue Pump Station

Fiscal Year	Costs
2015/2016	$300,000
2016/2017	$1,500,000
2017/2018	$2,500,000
Project Total	$4,300,000

Criteria Met:

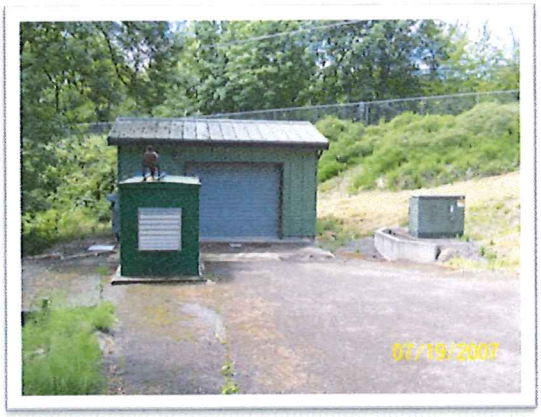
x	Safety/Liability
	Council Goals
x	Maintenance
x	Required per Regulation
	Coordinates with Larger Project
x	Existing Capacity
x	Cost Reduction
x	Future Capacity

Project Description:

The existing Dayton Avenue pump station and the 4,000 foot long 12-inch force main were constructed in 1993. The Gorman-Rupp top-side dry pumps are nearing the end of their service life and the volume of the station wet well is significantly undersized for the flows to the station. The station overflows into Chehalem Creek during very high flow events. The City hired RH2 Engineering to complete a feasibility analysis and preliminary design. This project will begin implementing these recommendations.

Proposed Funding Sources:

This project is funded through the wastewater utility.



Wastewater Program
Project Summary Sheet

Compost Facility

Fiscal Year	Costs
2016/2017	$50,000
2017/2018	$55,000
2022/2023	$50,000
Project Total	--

Criteria Met:

	Safety/Liability
	Council Goals
x	Maintenance
	Required per Regulation
	Coordinates with Larger Project
	Existing Capacity
	Cost Reduction
	Future Capacity

Project Description:

Historically the conveyor chain in the compost facility has needed to be replaced every 4-5 years due to wear and stretching. The last replacements were done in 2011, and at that time Staff changed the flights from steel to UHMW which seems to be increasing the lifespan as the chain is still in decent shape. Without having a better history with this new setup, Staff erred on the side of caution and has included the replacement twice assuming a 4 year lifespan.

Proposed Funding Sources:

This project is funded through the wastewater utility.

Wastewater Program
Project Summary Sheet

Roofing Replacement at WWTP

Fiscal Year	Costs
2016/2017	$100,000
2018/2019	$80,000
2022/2023	$270,000
Project Total	$350,000

Criteria Met:

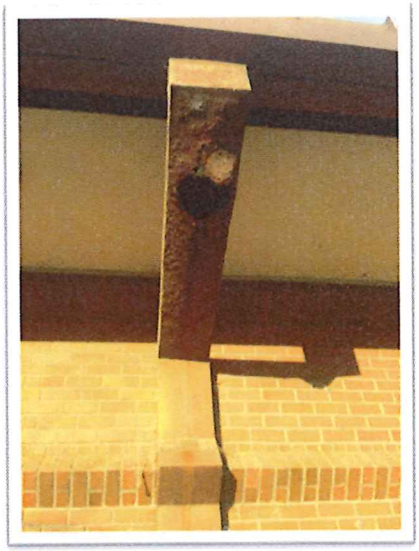
	Safety/Liability
	Council Goals
x	Maintenance
	Required per Regulation
	Coordinates with Larger Project
	Existing Capacity
	Cost Reduction
	Future Capacity

Project Description:

The maintenance of roofs on the existing buildings at the treatment plant has been deferred. The buildings include: Composter Building, Tunnels Building, Gutters and Soffits, Screw Press Room, Disinfection Building; Administration Building and the Secondary Building.

Proposed Funding Sources:

This project is funded through the wastewater utility.



Wastewater Program
Project Summary Sheet

Coating on Pump Stations

Fiscal Year	Costs
2017/2018	$100,000
2020/2021	$100,000
Project Total	$200,000

Criteria Met:

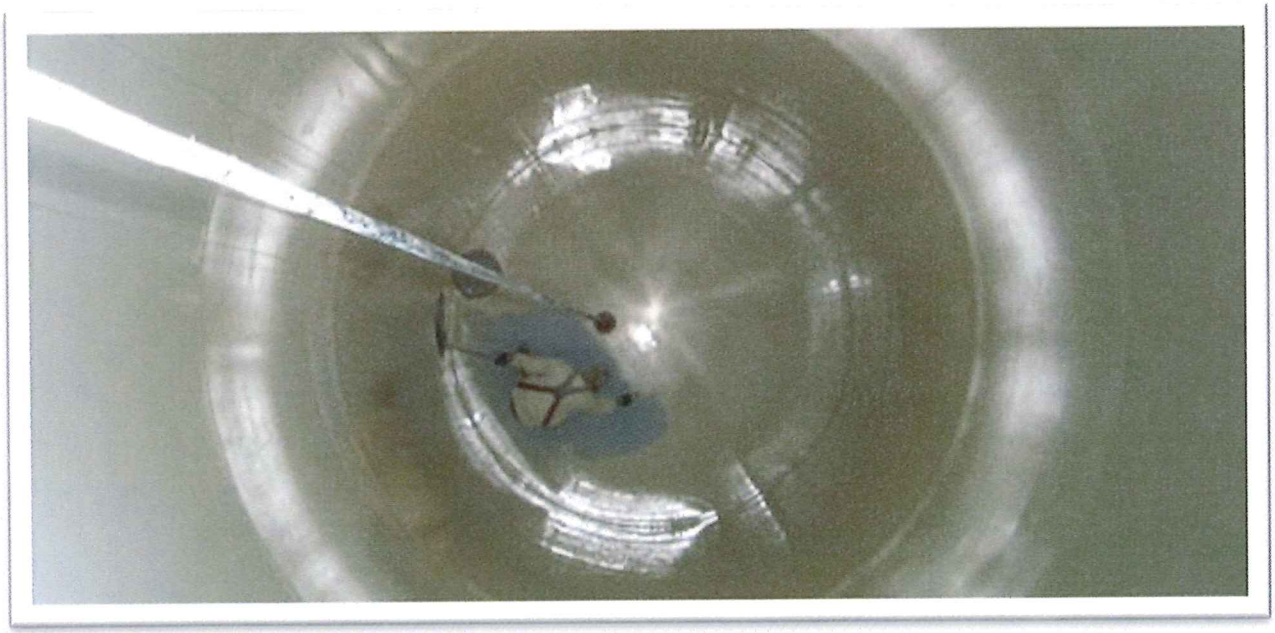
	Safety/Liability
	Council Goals
x	Maintenance
	Required per Regulation
	Coordinates with Larger Project
	Existing Capacity
x	Cost Reduction
	Future Capacity

Project Description:

As pump stations age, the interiors can degrade due to the corrosive properties of wastewater. Coating the interiors can extend the life and reduce maintenance of the stations. This project is to coat the Fernwood Road and Creekside pump stations.

Proposed Funding Sources:

This project is funded through the wastewater utility.



Wastewater Program
Project Summary Sheet

Wastewater Master Plan

Fiscal Year	Costs
2016/2017	$300,000
Project Total	$300,000

Criteria Met:

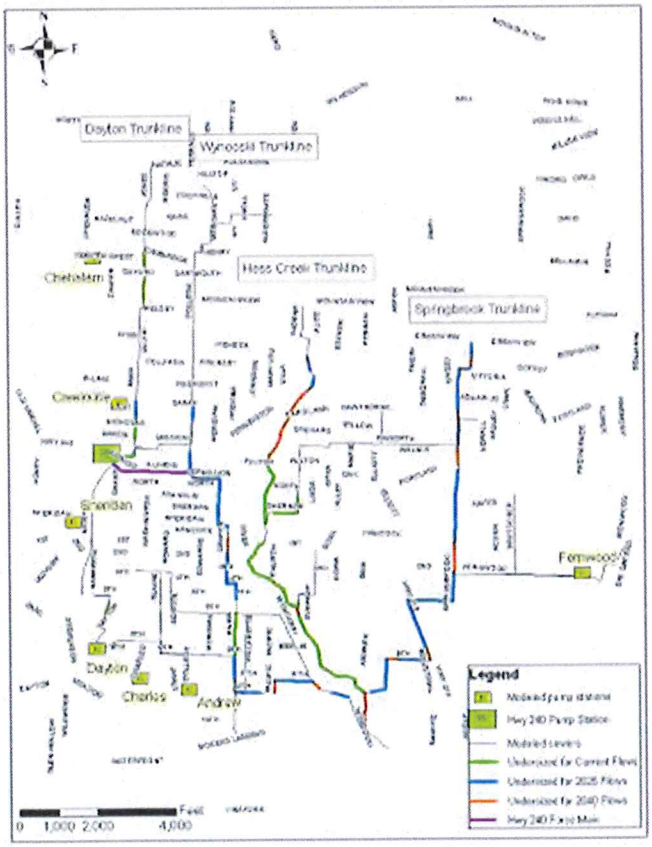
	Safety/Liability
	Council Goals
	Maintenance
x	Required per Regulation
	Coordinates with Larger Project
	Existing Capacity
	Cost Reduction
	Future Capacity

Project Description:

The last Wastewater Master Plan was completed in 2007. Per ORS they are required to be updated every 10 years. This update will include modeling the capacity of the system, including the treatment plant, and identify projects to address system deficiencies.

Proposed Funding Sources:

This project is funded through the wastewater utility.



Wastewater Program
Project Summary Sheet

Existing Oxidation Ditches

Fiscal Year	Costs
2016/2017	$1,200,000
2018/2019	$1,000,000
Project Total	$2,200,000

Criteria Met:

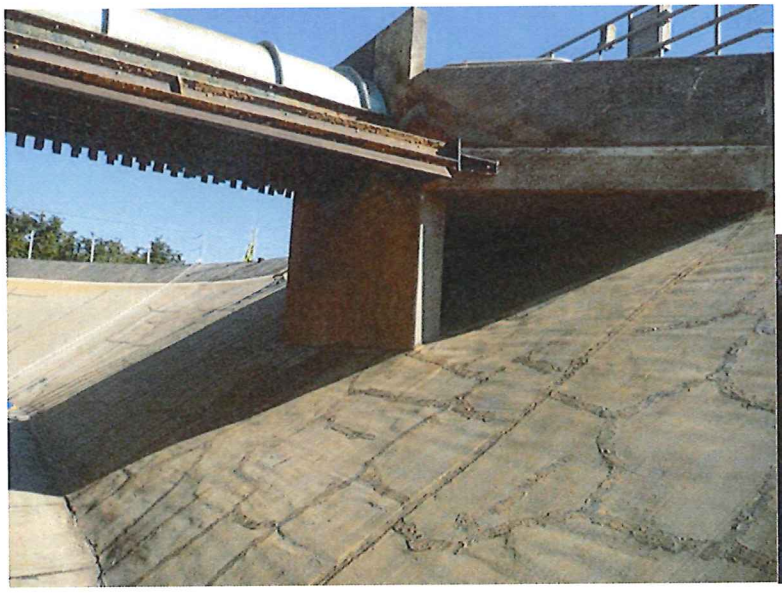
x	Safety/Liability
	Council Goals
x	Maintenance
	Required per Regulation
	Coordinates with Larger Project
x	Existing Capacity
x	Cost Reduction
x	Future Capacity

Project Description:

The construction of new oxidation ditches is proposed to start in FY20/21. In order to maximize our existing ditches they need to be structurally rehabilitated. Only one ditch can be offline at any one time, therefore, they are shown to be completed over several years.

Proposed Funding Sources:

This project is funded through the wastewater utility and SDCs. This project is 10% growth related.



Wastewater Program
Project Summary Sheet
Inflow and Infiltration Report

Fiscal Year	Costs
2020/2021	$200,000
Project Total	$200,000

Criteria Met:

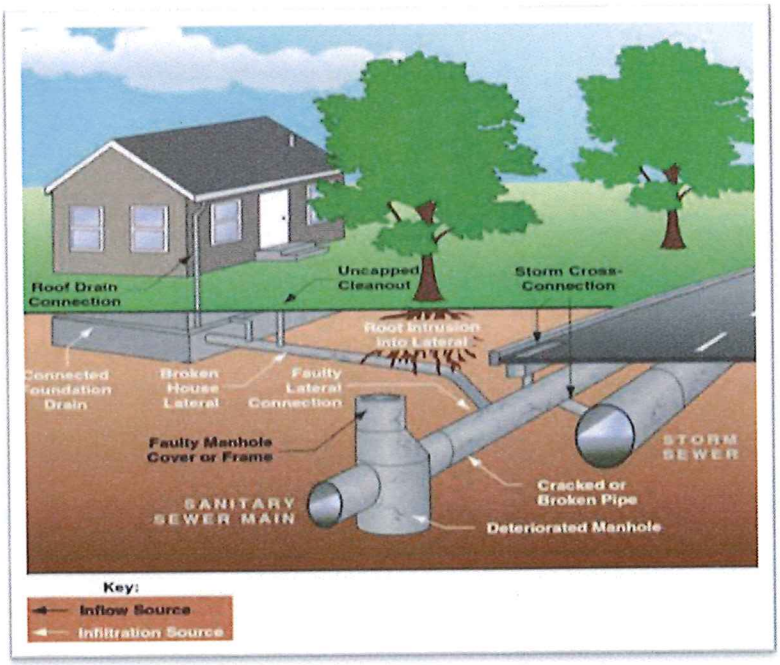
	Safety/Liability
	Council Goals
x	Maintenance
	Required per Regulation
	Coordinates with Larger Project
x	Existing Capacity
x	Cost Reduction
x	Future Capacity

Project Description:

The 2015 report focused on the Dayton and Wynooski Basins. This report will evaluate the Hess and Springbrook Basins and update the information for completed inflow and infiltration projects.

Proposed Funding Sources:

This project is funded through the wastewater utility and SDCs. This project is 50% growth related.



Wastewater Program
Project Summary Sheet

Hess Creek Trunk Line

Fiscal Year	Costs
2019/2020	$1,000,000
2020/2021	$2,500,000
Project Total	$3,500,000

Criteria Met:

x	Safety/Liability
	Council Goals
	Maintenance
	Required per Regulation
x	Coordinates with Larger Project
	Existing Capacity
	Cost Reduction
x	Future Capacity

Project Description:

The existing wastewater trunk line is aging and undersized for future development. Additionally a great portion of the line is within the Hess Creek Stream corridor. This project will upsize 3900' of existing pipe and will move it out of the creek bed where possible.

Proposed Funding Sources:

This project is funded through the wastewater utility and SDCs. This project is 80% growth related.